

TED (15) -4131  
(Revision- 2015)

**A20-04232**

Reg.No.....  
Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/  
COMMERCIAL PRACTICE – APRIL -2020.

**COMPUTER SYSTEM HARDWARE**

(Maximum Marks :75)

[Time : 2.15 hours]

**PART–A**

Marks

**I.** Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. Distinguish between BIOS and CMOS.
2. List the various optical storage devices.
3. State the function of AGP.
4. List any two touch screen technologies.
5. Name any two biometric devices.

(3x2=6)

**PART - B**

**II** Answer **any four** of the following questions . Each question carries 6 marks.

1. List and explain any four characteristics of memory.
2. Distinguish between device drivers and option ROM.
3. Write short notes on SCSI.
4. Describe the solid state drives mentioning their advantages and disadvantages.
5. Explain any two input devices.
6. Differentiate between thick client and thin client.
7. Compare laptops and desktops.

[4x6 =24]

**PART - C**

(Answer **any of the three units** from the following. Each full question carries 15 marks)

**UNIT I**

**III** (a) Describe the components of motherboard. (8)

(b) Explain the functions of BIOS. (7)

**OR**

- IV** (a) What is chipset? Explain the two important chips in a chipset. (8)  
(b) Explain the various types of memory packaging. (7)

**UNIT- II**

- V** (a) Describe the different power connectors in a motherboard. (9)  
(b) Compare PATA and SATA hard disk drive interfaces. (6)

**OR**

- VI** (a) Explain the working and organization of hard disk drive. (9)  
(b) Explain the different RAID levels. (6)

**UNIT- III**

- VII** (a) Explain the working of Laser printer. (8)  
(b) Describe the features of home theatre PC. (7)

**OR**

- VIII** (a) What are impact and nonimpact printers? Explain the working of inkjet printers. (8)  
(b) Explain the various types of scanners. (7)

**UNIT – IV**

- IX** (a) Describe the step by step procedure for disassembling laptops. (8)  
(b) Write short note on Notebooks, Ultra books and Tablet PCs. (7)

**OR**

- X** (a) What are the different types of displays used with laptops? Explain. (8)  
(b) Explain docking station. (7)

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